

Products Equipment Meetings Publications

at this conference will cover the following topics: fibres; matrices; hybrids; design and analysis, CAD; fabrication and processing; joining and machining; adhesion; inspection; mechanical testing; durability, fatigue, creep; damage and fracture; environmental effects; economics; and applications. A poster session is planned as well as an exhibition of fibres, matrices, products, equipment, books and magazines. A detailed technical programme of ICCM 7 will be available in Spring 1989 and the organisers recommend early planning of travel arrangements.

For further details contact:
Tu Dezhang, Chinese Society of Aeronautics and Astronautics, No. 67, South Street, Jiao Dao Kou, Beijing 100712, China.

Included in the Gordon Research Conferences for this summer is a 5-day meeting on the *Science of Adhesion* to be held in New Hampton, NH, USA, on 14-18 August. Topics to be covered include: adhesive development and testing; reduced temperature cure of aerospace adhesives; rubber toughened structural adhesives — microstructure property relationships; interfacial structure, properties and stability in bonded aluminium; viscoelastic behaviour of the fibre matrix interphase — theory and experiment; dissipative processes and long-term performance of adhesive bonds; interfacial properties in some thermoplastic matrix composites.

For additional information on this conference write to: *Dr Alexander M. Cruickshank, Gordon Research Center, University of Rhode Island, Kingston, RI 02881-0801, USA.*

Adhesion '90, the Fourth International Conference, will be held at Queen's College, University of Cambridge, UK on 10-12 September 1990. Organised by The Plastics and Rubber Institute, UK and sponsored by Ciba-Geigy, the organizing committee is requesting papers on any aspect of adhesion

and adhesives, but particularly in the following areas:

- surface-chemistry including surface treatments
- chemistry of adhesives
- durability
- stress analysis
- fracture
- practical applications
- robotic assembly techniques

Sessions for both orally presented papers and poster papers will be held, and in the poster session space will be reserved for research students to present their current work.

Abstracts of 100-200 words are required by 31 October 1989. Authors presenting papers will be asked for a 4 to 6 page extended abstract by 31 May 1990.

For more information contact:
Diane C. Varley, Conference Manager, The Plastics and Rubber Institute, 11 Hobart Place, London, SW1W 0HL, UK.

A 5-day course on *Adhesion, Adhesives and Adhesive Joints* is being held in Davos, Switzerland on 25-29 September 1989. The course, part of the 1989 Annual International Courses on Composites and Elastomers run by CEI-Europe/Elsevier, will cover the fundamentals of adhesion science and technology and the lecturers will relate this to their experience and discuss general and detailed problems with all participants. Topics to be covered include: surface treatment; adhesive chemistry, strength and durability; practical demonstrations of bonding procedures, surface measurement techniques; and NDT.

For more details please contact:
CEI-Europe/Elsevier, Gerda Wolzak, Box 2400, NL-1000 CK Amsterdam, Holland.

The one-day seminar *Adhesives for the Automotive and Mass Production Industries*, to have been held in March 1989, has been postponed until November. Further details, expected in early Autumn, will be available from: *Rosemary*

Cook, Meetings Co-ordinator, The Welding Institute, Abington Hall, Abington, Cambridge CB1 6AL, UK.

A call for papers has been issued for the *35th International SAMPE Symposium and Exhibition* being held in Anaheim, California, USA on 2-5 April 1990. The theme is *Advanced Materials: The Challenge for the Next Decade* and papers are solicited on non-metallic material and process research; development and applications in such areas as: materials engineering; tooling materials; thermoplastics; adhesives and bonding; surface preparation; carbon/carbon; processing; fabrication; advanced fibre and matrix materials; coatings; metal matrix; ceramics; quality control; and repair and applications.

Abstracts should be submitted no later than 1 June 1989. For further information regarding the Symposium and Exhibition, contact: *SAMPE Headquarters, PO Box 2459, Covina, CA 91722, USA.*

Publications

Two techno-economic multi-client studies now completed by Skeist Incorporated include the adhesives manufacturing industry among many others.

The studies, *Polyurethanes III*, and *Acrylic Polymers II*, cover each respective industry including markets, technological trends, marketing shifts, end uses, prices, applications, market share, and volumes for 1987 with predictions for 1992. The *Industry Review* gives an assessment of the structure of the polyurethane/acrylics business, including suppliers, markets, and acquisition opportunities.

The subscription fee for each report is \$8500 and a free brochure with a table of contents is available from: *Skeist Incorporated, 375 Route 10, Whippany, NJ 07981, USA.*

Products Equipment Meetings Publications

The third edition of *Materials Research Centres* has now been published. Superseding the second edition published in October 1986, this new edition contains details of research and technology laboratories in 80 countries with an enlarged chapter covering the USA, containing details of industrial centres, official laboratories and major university and technical college laboratories which carry out, promote or fund research into areas including: synthetic materials and fibres, composite materials; adhesives and sealants, carbon and graphite; ceramics and glass; and plastics.

Information given on each

laboratory includes: contact address, names of senior staff; annual R and D expenditure; a brief summary of research activities; major clients and publications. The 800-page directory, which is fully indexed by establishment title and by subject, costs £180.00 and is available from: *Promotions Department, Longman Group UK Ltd, Westgate House, The High, Harlow, Essex CM20 1YR, UK.*

The Adhesives Directory 1989, the directory of raw materials and additives for the adhesives producing industry and of adhesives, mastics and related

products used in all sectors and branches of industry, is now available priced £14.50 (including post and packaging) from Turret Group plc, UK. This 24th Edition of the Directory lists names and addresses; adhesives classified by chemical types; end uses; raw materials; plant and equipment; who's who in adhesives; trade names; associations and consultants; books and journals; adhesives selection check list; products; services directory, and an advertisers index.

For more information contact: *Turret Group plc, Turret House, 171 High Street, Rickmansworth, Herts WD3 1SN, UK.*

AME Advanced Manufacturing Engineering

Advanced Manufacturing Engineering is a new international journal, aimed at practising engineers and research workers. Publishing refereed papers on the latest research and applications, it covers the whole spectrum of modern manufacturing engineering:

- ★ Design for manufacture
- ★ Production systems design and operation
- ★ New materials and processes
- ★ Manufacturing operations

Contributions include technical papers, review articles, case studies, research notes and letters to the editor. Completing the coverage book reviews, conference reports, and a calendar of events.

Editors-in-chief:

UK Mike Gregory, Cambridge University

USA Ranga Komanduri, National Science Foundation

For a sample copy and more information write to Geraldine Hills at Butterworth Scientific Ltd, PO Box 63, Westbury House, Bury Street, Guildford, Surrey GU2 5BH, UK. Telephone (0483) 300966. Fax (0483) 301563. Telex 859556 SCITEC G.

Butterworths



PART OF REED INTERNATIONAL P.L.C.